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0073 255260

FIGURE 1

SCRPL13PWT	10	20	30	40	50
SCRPL13PWT	M	S	H	R	K
SCRPL13PWT	Y	E	A	P	R
SCRPL13PWT	H	G	H	L	G
SCRPL13PWT	F	L	P	R	K
SCRPL13PWT	A	A	S	I	R
SCRPL13PWT	A	R	V	K	A
SCRPL13PWT	F	K	P	K	D
SCRPL13PWT	D	R	S	K	P
SCRPL13PWT	V	A	L	T	S
SCRPL13PWT	F	L	G	Y	K
SCRPL13PWT	M	S	H	R	K
SCRPL13PWT	Y	E	A	P	R
SCRPL13PWT	H	G	H	L	G
SCRPL13PWT	F	L	P	R	K
SCRPL13PWT	A	A	S	I	R
SCRPL13PWT	A	R	V	K	A
SCRPL13PWT	F	K	P	K	D
SCRPL13PWT	D	R	S	K	P
SCRPL13PWT	V	A	L	T	S
SCRPL13PWT	F	L	G	Y	K
SCRPL13PWT	A	G	M	T	T
SCRPL13PWT	I	V	R	D	L
SCRPL13PWT	D	R	P	G	S
SCRPL13PWT	K	F	H	K	R
SCRPL13PWT	E	V	V	E	A
SCRPL13PWT	V	T	V	D	T
SCRPL13PWT	P	P	V	V	V
SCRPL13PWT	G	V	V	G	V
SCRPL13PWT	Y	V	E	T	P
SCRPL13PWT	R	G	L	R	G
SCRPL13PWT	L	R			
SCRPL13PWT	110	120	130	140	150
SCRPL13PWT	S	L	T	V	W
SCRPL13PWT	A	E	H	L	S
SCRPL13PWT	D	E	V	K	R
SCRPL13PWT	R	F	Y	K	N
SCRPL13PWT	W	Y	K	S	K
SCRPL13PWT	K	A	F	T	K
SCRPL13PWT	Y	S	A	K	Y
SCRPL13PWT	A	Q	D	G	A
SCRPL13PWT	G	I	E	R	E
SCRPL13PWT	L	A	R		
SCRPL13PWT	S	L	T	V	W
SCRPL13PWT	A	E	H	L	S
SCRPL13PWT	D	E	V	K	R
SCRPL13PWT	R	F	Y	K	N
SCRPL13PWT	W	Y	K	S	K
SCRPL13PWT	K	A	F	T	K
SCRPL13PWT	Y	S	A	K	Y
SCRPL13PWT	A	Q	D	G	A
SCRPL13PWT	G	I	E	R	E
SCRPL13PWT	L	A	R		
SCRPL13PWT	160	170	180	190	200
SCRPL13PWT	I	K	Y	A	S
SCRPL13PWT	V	V	R	V	L
SCRPL13PWT	V	H	T	Q	I
SCRPL13PWT	R	K	T	P	L
SCRPL13PWT	A	Q	K	K	A
SCRPL13PWT	H	L	A	E	I
SCRPL13PWT	Q	L	N	G	G
SCRPL13PWT	S	I	S	E	K
SCRPL13PWT	V	D	W	A	R
SCRPL13PWT	E	H	F	E	
SCRPL13PWT	I	K	Y	A	S
SCRPL13PWT	V	V	R	V	L
SCRPL13PWT	V	H	T	Q	I
SCRPL13PWT	R	K	T	P	L
SCRPL13PWT	A	Q	K	K	A
SCRPL13PWT	H	L	A	E	I
SCRPL13PWT	Q	L	N	G	G
SCRPL13PWT	S	I	S	E	K
SCRPL13PWT	V	D	W	A	R
SCRPL13PWT	E	H	F	E	
SCRPL13PWT	210	220	230	240	250
SCRPL13PWT	K	T	V	A	V
SCRPL13PWT	D	S	V	F	E
SCRPL13PWT	Q	N	E	M	I
SCRPL13PWT	D	A	I	A	V
SCRPL13PWT	T	K	G	H	G
SCRPL13PWT	F	E	G	V	T
SCRPL13PWT	H	R	W	G	T
SCRPL13PWT	K	K	L	P	R
SCRPL13PWT	K	T	H	R	G
SCRPL13PWT	L	R	K	K	V
SCRPL13PWT	K	T	V	A	V
SCRPL13PWT	D	S	V	F	E
SCRPL13PWT	Q	N	E	M	I
SCRPL13PWT	D	A	I	A	V
SCRPL13PWT	T	K	G	H	G
SCRPL13PWT	F	E	G	V	T
SCRPL13PWT	H	R	W	G	T
SCRPL13PWT	K	K	L	P	R
SCRPL13PWT	K	T	H	R	G
SCRPL13PWT	L	R	K	K	V
SCRPL13PWT	260	270	280	290	300
SCRPL13PWT	C	I	G	A	H
SCRPL13PWT	P	A	H	V	M
SCRPL13PWT	S	V	A	R	A
SCRPL13PWT	G	Q	R	G	Y
SCRPL13PWT	H	S	R	T	S
SCRPL13PWT	I	N	H	K	I
SCRPL13PWT	K	I	Y	R	V
SCRPL13PWT	G	K	D	D	E
SCRPL13PWT	A	N	G	A	T
SCRPL13PWT	S	F	D	R	
SCRPL13PWT	C	I	G	A	H
SCRPL13PWT	P	A	H	V	M
SCRPL13PWT	S	V	A	R	A
SCRPL13PWT	G	Q	R	G	Y
SCRPL13PWT	H	S	R	T	S
SCRPL13PWT	I	N	H	K	I
SCRPL13PWT	K	I	Y	R	V
SCRPL13PWT	G	K	D	D	E
SCRPL13PWT	A	N	G	A	T
SCRPL13PWT	S	F	D	R	
SCRPL13PWT	310	320	330	340	350
SCRPL13PWT	T	K	K	T	I
SCRPL13PWT	T	P	M	G	G
SCRPL13PWT	F	V	H	Y	G
SCRPL13PWT	E	I	K	N	D
SCRPL13PWT	F	I	M	V	K
SCRPL13PWT	G	C	I	P	G
SCRPL13PWT	N	R	K	R	I
SCRPL13PWT	V	T	L	R	K
SCRPL13PWT	S	L	Y	T	N
SCRPL13PWT	T	S	R	K	A
SCRPL13PWT	T	K	K	T	I
SCRPL13PWT	T	P	M	G	G
SCRPL13PWT	F	V	H	Y	G
SCRPL13PWT	E	I	K	N	D
SCRPL13PWT	F	I	M	V	K
SCRPL13PWT	G	C	I	P	G
SCRPL13PWT	N	R	K	R	I
SCRPL13PWT	V	T	L	R	K
SCRPL13PWT	S	L	Y	T	N
SCRPL13PWT	T	S	R	K	A

PRL3 RICE

RL3 YEAST

PRL3 RICE

RL3 YEAST

PRL3 RICE

RL3 YEAST

PRL3 RICE

RL3 YEAST

PRL3 RICE

RL3 YEAST

PRL3 RICE

RL3 YEAST

PRL3 RICE

RL3 YEAST

PRL3 RICE

RPL3\_YEAST

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1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as  $\epsilon \rightarrow 0$ . It is shown that the solutions of the system (1) converge to the solutions of the system (2) in the sense of the weak convergence in the space  $L^2(\Omega; \mathbb{R}^n)$ .

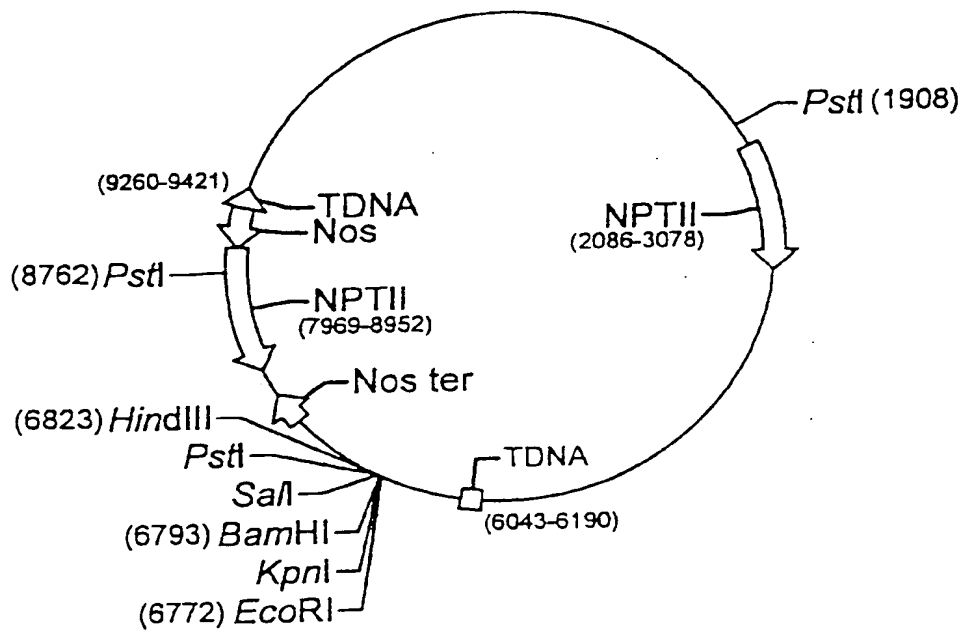
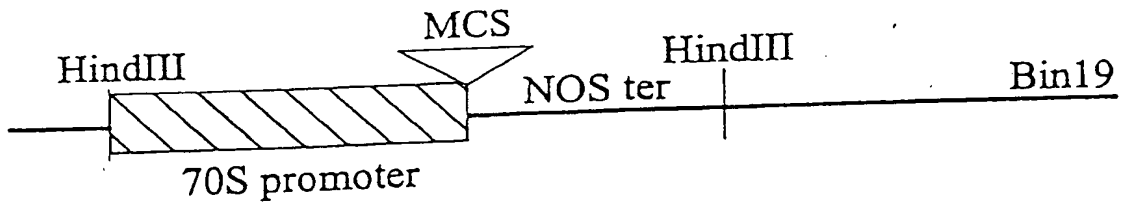
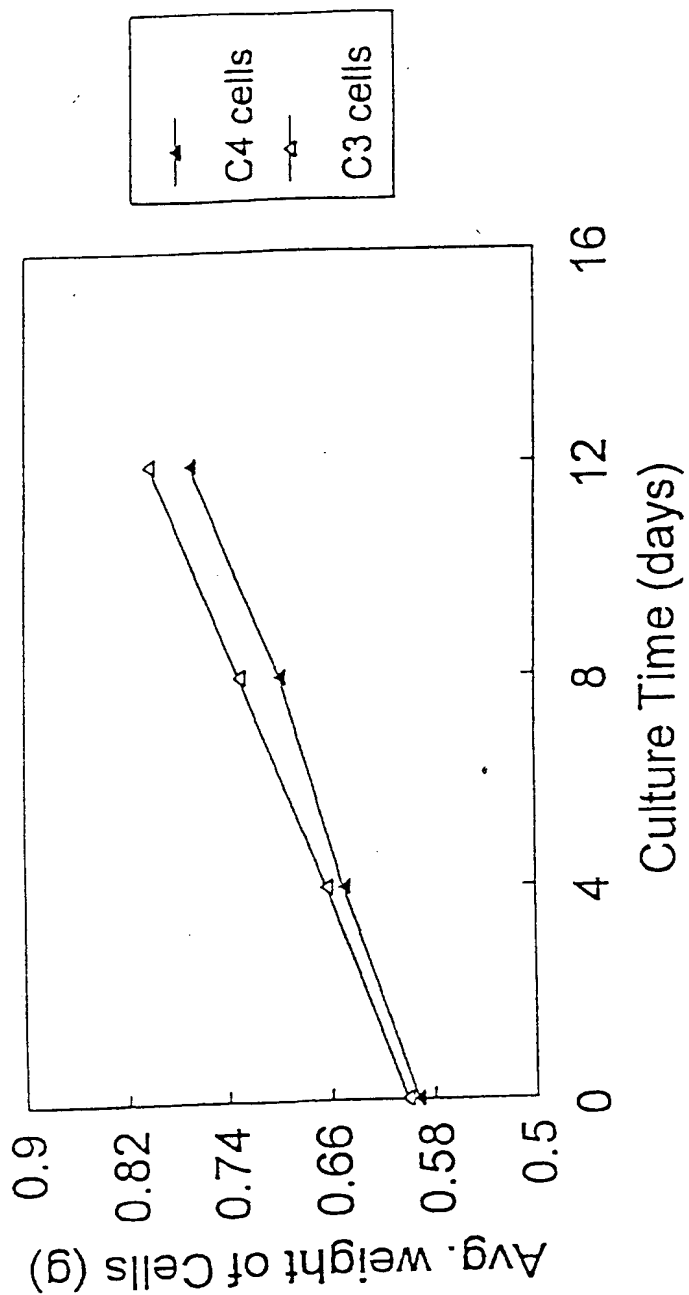


FIGURE 4

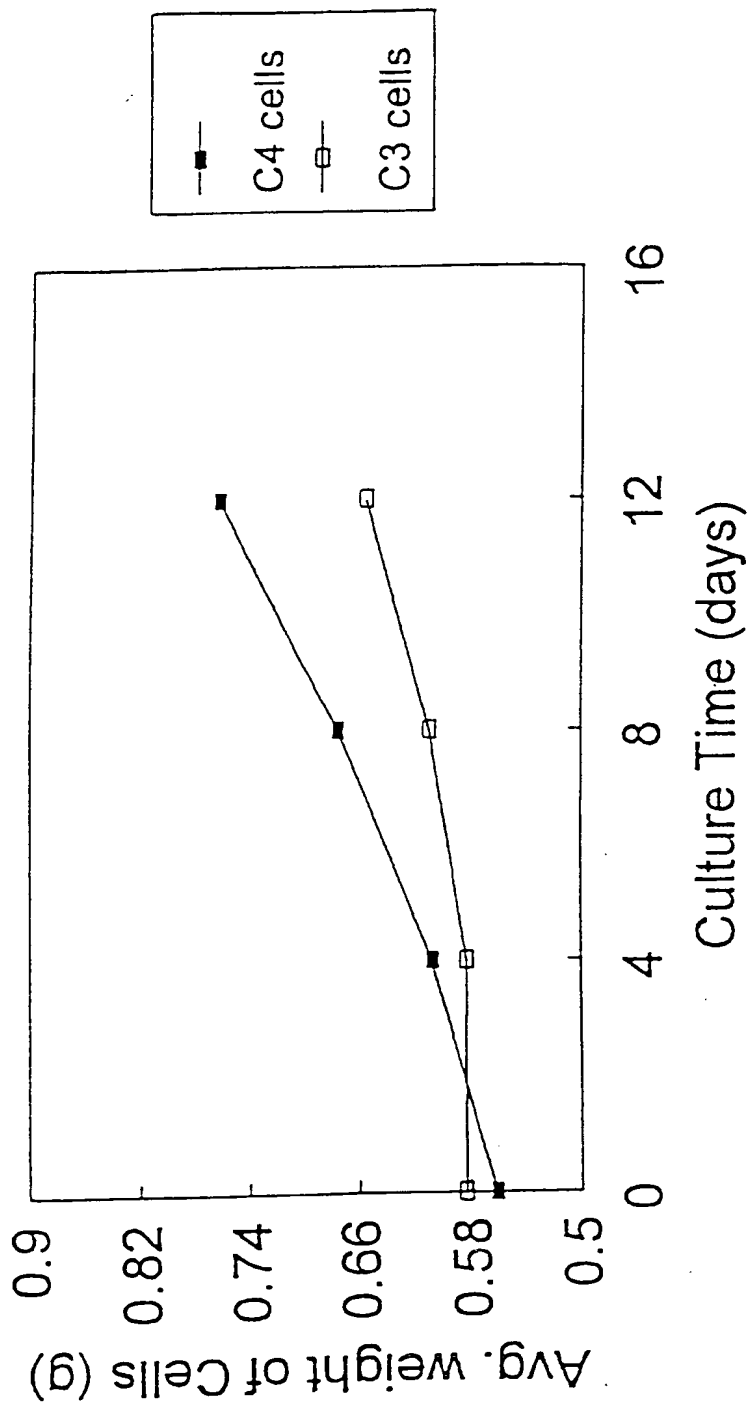
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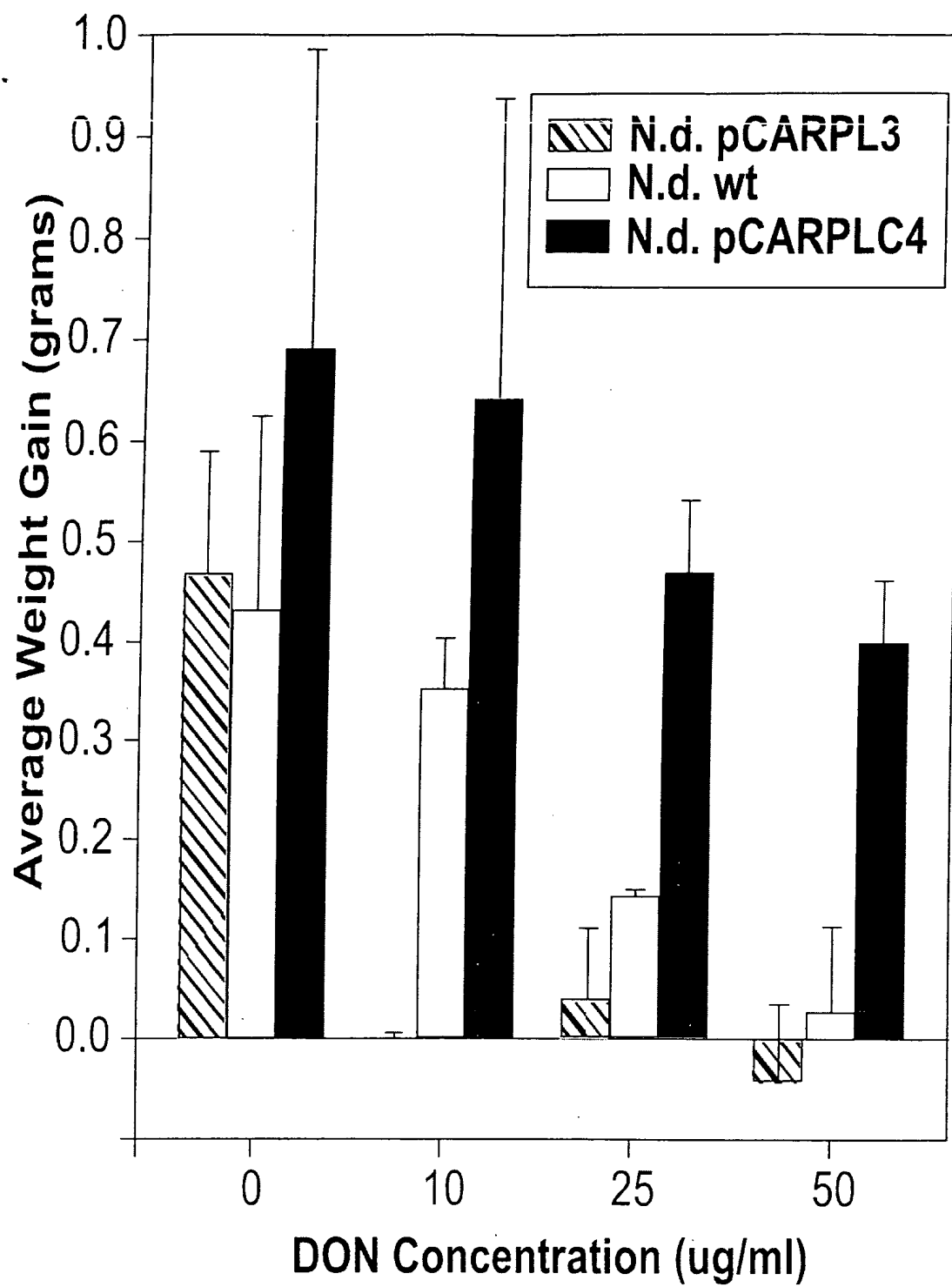
### Growth Rate of Transgenic Tobacco Cells in the Absence of DON



Growth Rate of Transgenic Tobacco Cells in the Presence of 25 ppm DON



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maize1.SEQ  
maize2.SEQ  
sorghum1.seq  
sorghum2.seq  
wheat.seq  
barley.seq  
oat.seq  
rice.SEQ

ATGTCGCACCGTAAGTTCGAGCACCGGACGCGCTCCTCGGCTTCCTCCCGAGGACGCTCTCCGCCACCGCGCAAGGTGAAG 90  
ATGTCGCACAGGAAGTTCGAGCACCGGACGCGCTCCTCGGCTTCCTCCCGAGGACGCTCTCCGCCACCGCGCAAGGTGAAG 90  
ATGTCGCACCGCAAGTTCGAGCACCGGACGCGCTCCTCGGCTTCCTCCCGAGGACGCTCTCCGCCACCGCGCAAGGTGAAG 90  
ATGTCGCACCGTAAATTTCGAGCACCGGACGCGCTCCTCGGCTTCCTCCCGATTAAGCGATCTCTCCGCCACCGCGGAAAGGTGAA 90  
ATGTCGCACCGTAAGTTCGAGCACCGGACGCGATCCTCGGTTTCCTCCCGAGGACGGTGTCTCGCGCACCGCGGAAAGGTGAAG 90  
ATGTCGCACCGTAAGTTCGAGCACCGGACGCGATCCTCGGTTTCCTCCCGAGGACGGTTGCTGTCTCGCGCACCGCGGAAAGGTGAAG 90  
ATGTCGCACAGGAAGTTCGAGCACCGGACATCGATCCTCGGCTTCCTCCCGAGGACGCTCTCCGCCACCGCGCAAGGTGAAG 90

maize1.seq	TCATTCCCGAGGATGACCCCAAGAAGCCTTGCCATCTCATCTGCTTCCTTGGCTACAAGGCTGGCATGACTCACAATTGTCGGTGAGGTT	180
maize2.seq	TCATTCCCTAGGATGACCCCAAGAAGCCTTGCCATCTCATCTGCTTCCTTGGCTACAAGGCTGGCATGACTCACAATTGTCGGTGAGGTT	180
sorghum1.seq	TCATTCCCGAGGATGACCCCAAGAAGGCTTGCCACCTCAACGCCCTTCCTTGGCTACAAGGCTGGCAYGACTCACAATTGTCGGTGAGGTC	180
sorghum2.seq	TCCTTCCCGAGGATGACCCCAAGAAGCCCTGCCACCTCAACGCCATTTGTTGGCTACAAGGCTGGAATGACACACAATTGTCGGTGAGGTC	180
wheat.seq	GCCTTCCCGAGATGACCAATCCCAAGAAATGCCACCTTACTGCTTCCTTGGCTACAAGGCTGGATGACCCACAATTGTCGGTGAGGTT	180
barley.seq	GCCTTCCCGAGATGACCAATCCCAAGAAATGCCACCTCACTGCTTCCTTGGCTACAAGGCTGGATGACTCACAATTGTCGGTGAGGTC	180
oat.seq	-----TGGCACA-----	
rice.seq	TCCTTCCCGAGATGAGGTATCAAGGCCCTGCCACCTTACTTCCTTCGTTGGCTACAAGGCTGGAATGACACACAATTGTCGGTGAGGTC	180

maizel.SEQ  
maize2.SEQ  
sorghum1.seq  
sorghum2.seq  
wheat.seq  
barley.seq  
oat.seq  
rice.SEQ



GCATATGTGAAGACTCTCTGTGGCTCCGCACACCCAACTCTGTTTGGGCCCAACATCTTAGCGAAGAAGTGAGGAGAAGGTTCTTACAAG 360

GCATATGTGAAGACTCCCCGTGGCTCCGCACACTCAACTCTGTTTGGGCCCAACATCTTAGCGAAGAAGTGAGGAGAAGGTTCTTACAAG 360

GCATATGTGAAGACTCTCCGGGCTCCGCACACTCAACACTGTTTGGGCTCAGCATCTTAGCGAAGAAGTTAGGAGAAGGTTCTTACAAG 360

GCATATGTGAAGACCCCTCCGGGCTTGGAAAGCCCTCAACTCTGTCTGGGCCACAGCATCTGTCAGGAGAAGGTTTCTTACAAG 360

GGCCTATGTGAAGACTCTCTCTGTGGCTTCGTACTCTCAACTCTGTCTGGGCAACAGCATCTCAGCGAAGATGTSAGGAGAAGGTTCTTACAAG 360

GGCCTATGTGAAGACTCTCTGTGGCTTCGTACTCTCAACTCTGTCTGGGCAACAGCATCTCAGCGAAGATGTSAGGAGAAGGTTCTTACAAG 360

GGCTACGTGAAGACTCTCTGTGGCTTCGTACTCTTAACACTGTCTGGGCTCAGCATCTCAGTGAAGACCGTTAGGAGGAGGTTCTTACAAG 183

GGCCTATGTCAAGACACCTCTGGGACTTCGCTCTCTCAACTCTGTCTGGGCCCAACCATCTTAGGAGGAGGTTGCGGAGAAGGTTCTTACAAG 360

FIGURE 7B

[illegible]

FIGURE 7C

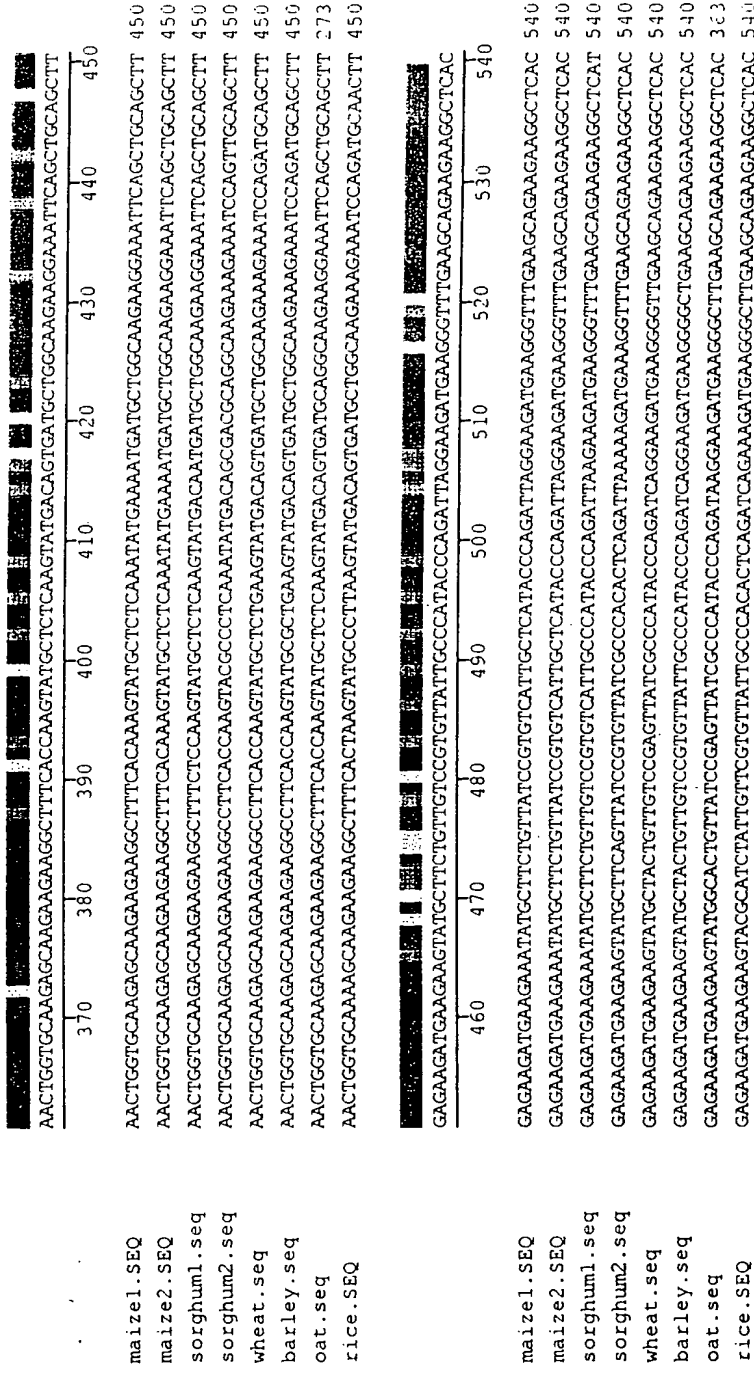
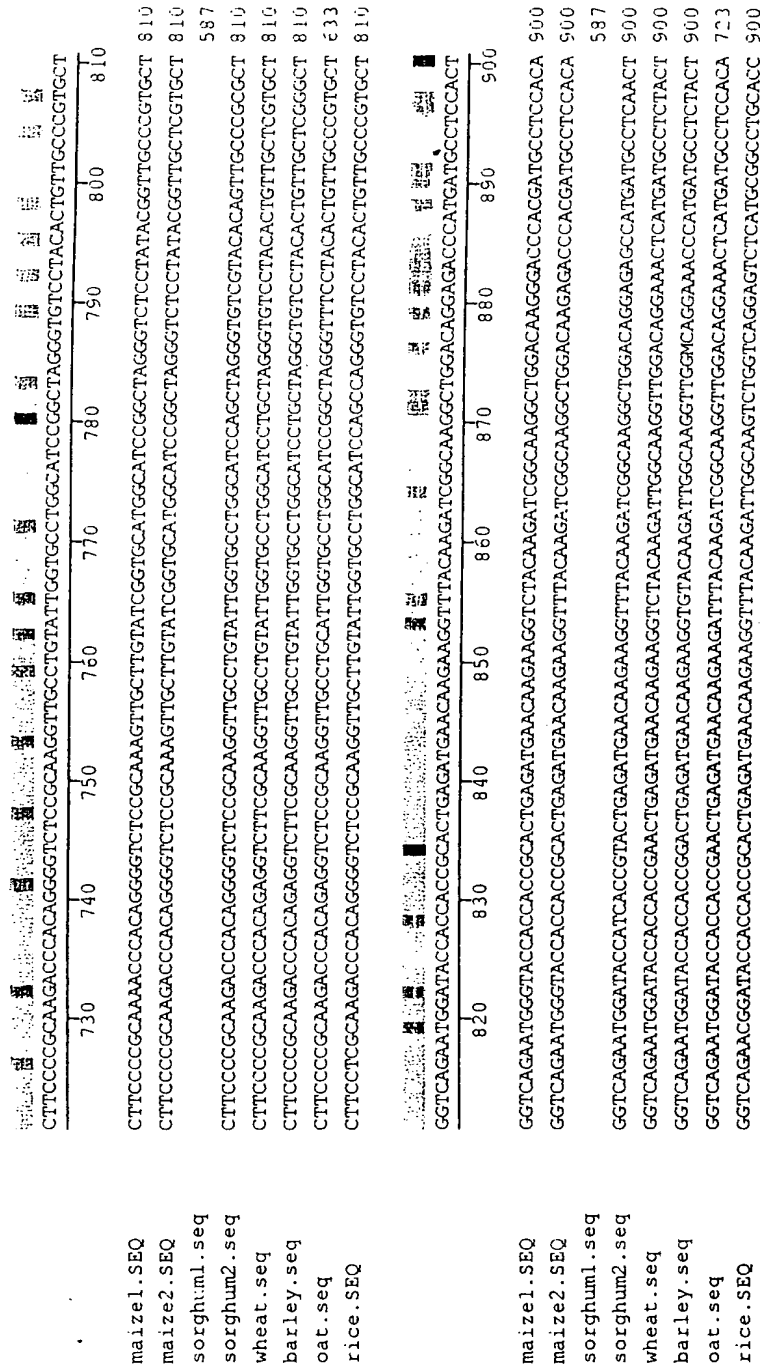


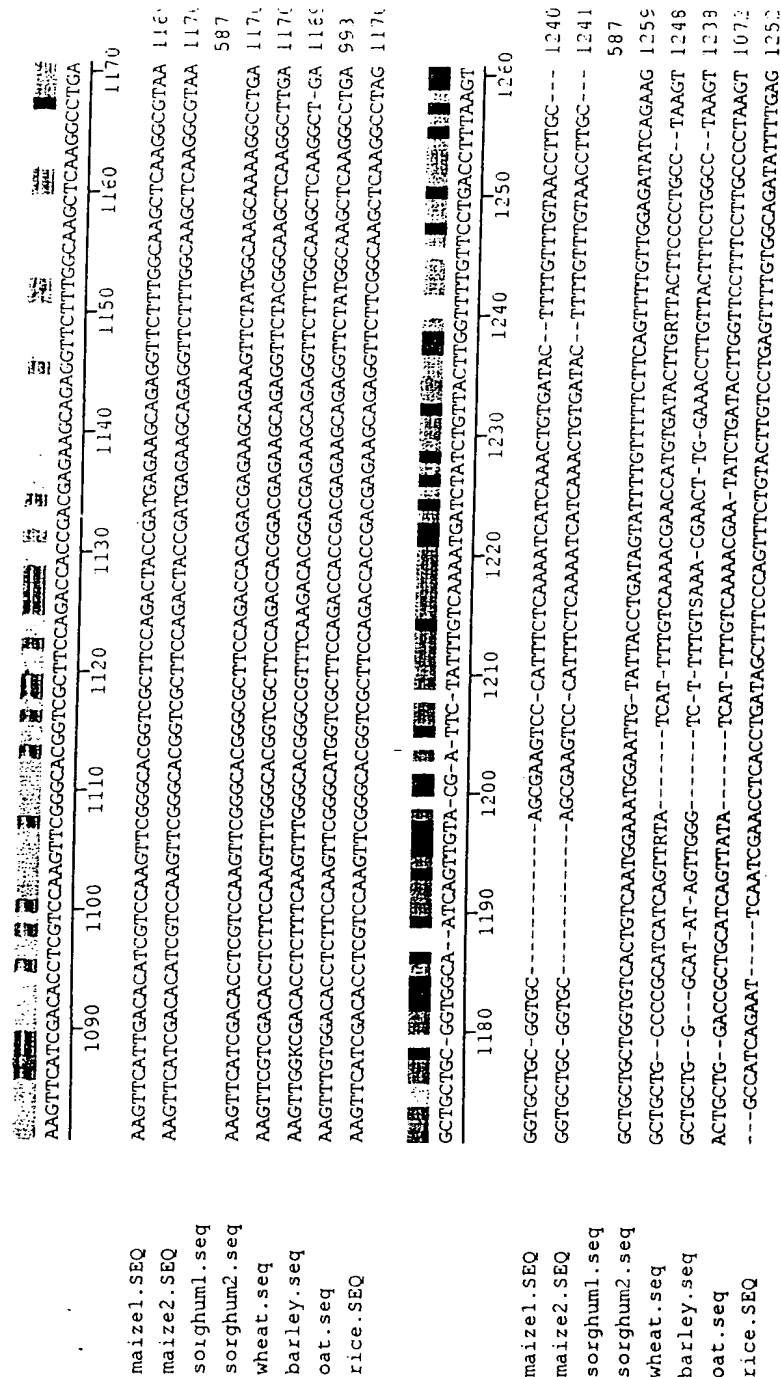


FIGURE 7E



maize1.SEG  
maize2.SEG  
sorghum1.seq  
sorghum2.seq  
wheat.seq  
barley.seq  
oat.seq  
rice.SEG

FIGURE 7G



maize1.SEQ  
maize2.SEQ  
sorghum1.seq  
sorghum2.seq  
wheat.seq  
barley.seq  
oat.seq  
rice.SEQ

maize1.SEQ  
maize2.SEQ  
sorghum1.seq  
sorghum2.seq  
wheat.seq  
barley.seq  
oat.seq  
rice.SEQ

FIGURE 7H

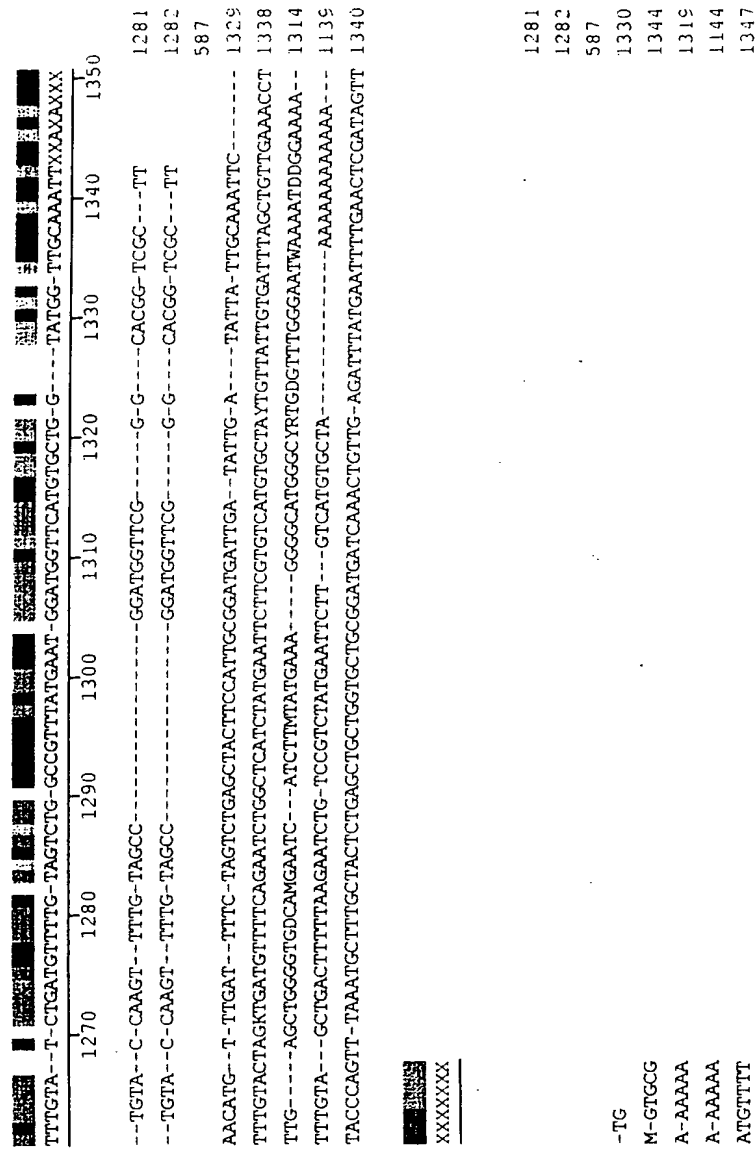


FIGURE 8A

\* \* \* \* \*

maize	MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPRDDPKKPCHLTAFL	47
sorghum	MSHRKFEHPRHGSLSFLPNKRSSRHRGKVKSFPRDDPKKPCHLTAFL	
wheat	MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSFPRDDQSKPCHLTAFL	
barley	MSHRKFEHPRHGSLGFLPRKRCSRHRGKVKAFPRDDQSKKCHLTAFL	
oat	.....	
rice	MSHRKFEHPRHGSLGFLPRKRSSRHRGKVKSPKDDVSKPCHLTSFV	

\* \* \* \* \*

maize	GYKAGMTHIVREVEKPGSKLHKKETCEAVTI IETPPLVIVGLVAYVKT	95
sorghum	GYKAGMTHIVREVEKPGSKLHKKETCEAVTI IETPPLVIVGLVAYVKT	
wheat	GYKAGMTHIVREVEKPGSKLHKKETCEAVTIVETPPLVIVGLVAYVKT	
barley	GYKAGMTHIVREVEKPGSKLHKKETCEAVTIVETPPIVIVGLVAYVKT	
oat	.....WHEPGSKLHKKETCEAVTIVETPPIVIVGLVAYVKT	
rice	GYKAGMTHIVREVEKPGSKLHKKETCEAVTI IETPPLVIVGLVAYVKT	

\* \* \* \* \*

maize	PRGLRTLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYENDA	141
sorghum	PRGLRTLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYDSDA	
wheat	PRGLRTLNSVWAQHLSDEVRRRFYKNWCKSKKKAFTKYALKYDSDA	
barley	PRGLRTLNSVWAQHLSDEVRRRFYKNWCKSKKKAFTKYALKYDSDA	
oat	PRGLRTLNTVWAQHLSDEVRRRFYKNWCKSKKKAFTKYALKYDSDA	
rice	PRGLRSLNSVWAQHLSEEVRRRFYKNWCKSKKKAFTKYALKYDSDA	

\* \* \* \* \*

maize	GKKEIQLQLEKMKKYASV IRVIAHTQIRKMKGLKQKKAHLMEIQVNG	188
sorghum	GKKEIQLQLEKMKKYASV IRVIAHTQIKMKGLKQKKAHLMEIQVNG	
wheat	GKKEIQLQLEKMKKYASVVRVIAHTQIRKMKGLKQKKAHLMEIQVNG	
barley	GKKEIQMQLEKMKKYATVVRVIAHTQIRKMKGLKQKKAHLMEIQING	
oat	GKKEIQLQLEKMKKYGTV IRVIAHTQIRKMKGLKQKKAHLMEIQVNG	
rice	GKKEIQMQLEKMKKYASI VRVIAHTQIRKMKGLKQKKAHLMEIQING	

\* \* \* \*

maize	GTIADKVDYGYKFFEKEVPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	235
sorghum	GTIADKVDYGYKFFEKEVPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	
wheat	GTIADKVDYGYNFFEKEVPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	
barley	GTIADKVDYGYNFFEKEVP IDAVFQKDEMIDIIGVTKGKGYEGVVTR	
oat	GTIADKVDYGYNFFEKEVP IDAVFQKDEMIDIIGVTKGKGYEGVVTR	
rice	GTIADKVDYGYKFFEKE IPVDAVFQKDEMIDIIGVTKGKGYEGVVTR	

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$\frac{d}{dt} \left( \frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$

		* * *	*	
maize	MIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKF IDTSSKFGHGGRF			374
sorghum	MIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKF IDTSSKFGHGGRF			
wheat	MIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFVDTSKFGHGGRF			
barley	MIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKLXDTSFKFGHGGPF			
oat	MIKGCCVGPKKRVVTLRQSLLKQTSRLALEEIKLKFVDTSKFGHGGRF			
rice	MIKGCCVGPKKRVVTLROSLLKQTSRLALEEIKLKF IDTSSKFGHGGRF			

	*	*	*	*	*****
maize	QTTDEKQRFFGKLKA	389			
sorghum	QTTDEKQKFY GKQKA				
wheat	QTTDEKQRFFGKLKA				
barley	QDTDEKQRFFGKLKAELLGI				
oat	QTTDEKQRFY GKLKA				
rice	QTTDEKQRFFGKLKA				

FIGURE 9

